



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to	N side:	IEC 61169-16, MIL-PRF-39012, CECC 22210
	7/16 side:	IEC 61169-4, EN 122190, DIN 47223

Material and plating

Connector parts

- Center contact
- Outer contact
- Dielectric
- Gasket

Material

- CuBe or equiv.
- Brass
- PTFE
- Silicone

Plating

- Silver, 3-6 µm
- Flash white bronze over silver(e.g. Optargen®)

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/05:10/6.0

7-16/N

Adaptor
7/16 Plug – N Jack

60S153-KIMN1

Electrical data

Impedance 50 Ω
 Frequency DC to 7.5 GHz
 Return loss ≥ 30 dB @ DC to 6 GHz
 ≥ 24 dB @ 6 GHz to 8.3 GHz
 Insertion loss ≤ 0.05 x √f [GHz] dB
 Insulation resistance ≥ 5 GΩ
 Center contact resistance ≤ 1 mΩ
 Outer contact resistance ≤ 1.5 mΩ
 Working voltage (at sea level) 500 V rms
 Power handling (at 20 °C, sea level, VSWR 1.0) 1000 W @ 1 GHz
 700 W @ 2 GHz
 RF-leakage ≥ 128 dB @ DC to 1 GHz
 Intermodulation (3rd order) ≤ -128 dBm @ 2 x 20 W

Mechanical data

	N side	7/16 side
Mating cycles	≥ 500	≥ 500
Coupling nut retention	N/A	≥ 1000 N
Center contact captivation: axial	≥ 200 N	≥ 200 N
radial	≥ 2 Ncm	≥ 2 Ncm
Coupling torque (recommended)	0.7 to 1.1 Nm	25 to 30 Nm
Proof torque	≤ 1.7 Nm	≤ 35 Nm

Environmental data

Temperature range -55 °C to +155 °C
 Rapid change of temperature DIN EN 122190, Sub-clause 4.6.7
 Corrosion resistance DIN EN 122190, Sub-clause 4.6.10
 Vibration DIN EN 122190, Sub-clause 4.6.3
 Climatic category DIN EN 122190, Sub-clause 4.6.5 (55/155/56)
 Damp heat DIN EN 122190 , Sub-clause 4.6.6
 Degree of protection (mated pair) IEC 60529, IP68 2.5 bar 1 h
 RoHS compliant

Weight

Weight 83.5 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Benjamin Kaindl	15.03.12	A. Gasteiger	05.05.2015	d00	15-0557	Nobis A.	05.05.2015
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de						Tel. : +49 8684 18-0 Email : info@rosenberger.de	
						Page 2 / 2	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[60S153-KIMN1](#)